```
      CAS/STN FILE 'WPIX' ENTERED AT 14:18:30 ON 23 JAN 2008
L1            1 SEA ABB=ON   PLU=ON  DE10042132/PN
L2              SEL PLU=ON   L1 1- PN :          1 TERM

      FILE 'DPCI' ENTERED AT 14:18:57 ON 23 JAN 2008
L3            1 SEA ABB=ON   PLU=ON  DE10042132/PN.D


      FILE 'STNGUIDE' ENTERED AT 14:19:48 ON 23 JAN 2008

      FILE 'HCAPLUS' ENTERED AT 14:59:06 ON 23 JAN 2008
L4         3078 SEA ABB=ON   PLU=ON   (LASER###### OR BEAM OR IRRADIAT##### OR
                RADIATION OR ELECTROMAGNETIC(2A)(HEAT#### OR ENERGY))(5A)?SINTER?


      FILE 'STNGUIDE' ENTERED AT 14:59:12 ON 23 JAN 2008


      FILE 'HCAPLUS' ENTERED AT 15:11:51 ON 23 JAN 2008
L5       297347 SEA ABB=ON   PLU=ON   (?PARTICL? OR ?PARTICULAT? OR DUST? OR DOT
                OR GRIT? OR ?GRAIN? OR ?GRANUL? OR ?POWDER? OR FINES? OR
                PRILL? OR FLAKE? OR ?PELLET? OR BB OR MICROSPHERE OR NANOSPHERE
                )(4A)(SINTER#### OR METAL OR METALLIC OR AL OR CU OR ALUMINUM
                OR ALUMINIUM OR COPPER OR ELECTRIC####(2A)CONDUCT####)
L6         1196 SEA ABB=ON   PLU=ON   L4 AND L5

      FILE 'HCAPLUS' ENTERED AT 15:12:48 ON 23 JAN 2008
L7          846 SEA ABB=ON   PLU=ON   (LASER###### OR BEAM OR IRRADIAT##### OR
                RADIATION OR ELECTROMAGNETIC)(4A)(CONSOLIDAT##### OR SOLIDIF###
                ###)
L8           81 SEA ABB=ON   PLU=ON   (?PARTICL? OR ?PARTICULAT? OR DUST? OR DOT
                OR GRIT? OR ?GRAIN? OR ?GRANUL? OR ?POWDER? OR FINES? OR
                PRILL? OR FLAKE? OR ?PELLET? OR BB OR MICROSPHERE OR NANOSPHERE
                )(4A)(SINTER#### OR METAL OR METALLIC OR AL OR CU OR ALUMINUM
                OR ALUMINIUM OR COPPER OR ELECTRIC####(2A)CONDUCT####) AND L7
L9         1266 SEA ABB=ON   PLU=ON   L6 OR L8


      FILE 'STNGUIDE' ENTERED AT 15:13:14 ON 23 JAN 2008


      FILE 'HCAPLUS' ENTERED AT 15:14:54 ON 23 JAN 2008
L10          42 SEA ABB=ON   PLU=ON   L9 AND (PROJECTION OR ROUGH##### OR
                BUMP##### OR FEATURES OR IRREGULAR##### ?PORE? OR ?POROUS? OR
                ?POROS? OR VOID OR MICROVOID OR NANOVOID)(3A)SURFACE
L11          22 SEA ABB=ON   PLU=ON   L9 AND SURFACE(2A)AREA
L12           3 SEA ABB=ON   PLU=ON   L9 AND SURFACE(4A)(PEAK#### OR VALLEY#####
                OR ?PATTERN?)
L13          44 SEA ABB=ON   PLU=ON   L9 AND ?LAYERED
L14           7 SEA ABB=ON   PLU=ON   L9 AND ?LAYERING
L15           1 SEA ABB=ON   PLU=ON   L9 AND BUILTUP
L16           0 SEA ABB=ON   PLU=ON   L9 AND BUILDUP
L17          15 SEA ABB=ON   PLU=ON   L9 AND BUILD UP
L18           6 SEA ABB=ON   PLU=ON   L9 AND BUILT UP
L19          24 SEA ABB=ON   PLU=ON   L9 AND MULTILAYER?
L20           7 SEA ABB=ON   PLU=ON   L9 AND MULTI LAYER?


      FILE 'STNGUIDE' ENTERED AT 15:16:35 ON 23 JAN 2008


      FILE 'HCAPLUS' ENTERED AT 15:17:51 ON 23 JAN 2008
L21           0 SEA ABB=ON   PLU=ON   L9 AND (SUBLAYER? OR OVERLAYER? OR
                SUCCEE######(3A)(?COAT? OR LAYER? OR ?MEMBRAN? OR FILM))
```

FILE 'STNGUIDE' ENTERED AT 15:17:51 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:18:07 ON 23 JAN 2008
L22   0 SEA ABB=ON PLU=ON L9 AND (SUB LAYER? OR OVER LAYER?)

FILE 'STNGUIDE' ENTERED AT 15:18:11 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:18:36 ON 23 JAN 2008
L23   24 SEA ABB=ON PLU=ON L9 AND (RESISTIVIT#### OR RESISTANCE)(1A)EL
ECTRIC#####

FILE 'STNGUIDE' ENTERED AT 15:18:40 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:18:52 ON 23 JAN 2008
L24   27 SEA ABB=ON PLU=ON L9 AND CONDUCT#####(1A)ELECTRIC#####

FILE 'HCAPLUS' ENTERED AT 15:19:14 ON 23 JAN 2008
L25   1 SEA ABB=ON PLU=ON L9 AND CONDUCT?(1T)ELECTRO?

FILE 'STNGUIDE' ENTERED AT 15:19:19 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:20:14 ON 23 JAN 2008
L26   21 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND SURFACE#####(6A)METAL#####

FILE 'STNGUIDE' ENTERED AT 15:20:19 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:20:28 ON 23 JAN 2008
L27   19 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND SURFACE##### AREA

FILE 'STNGUIDE' ENTERED AT 15:20:35 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:21:13 ON 23 JAN 2008
L28   27 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND CONDUCT#####(1A)ELECTRIC#####

FILE 'HCAPLUS' ENTERED AT 15:21:23 ON 23 JAN 2008
L29   0 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND CONDUCT#####(1A)RESIST######

FILE 'HCAPLUS' ENTERED AT 15:21:33 ON 23 JAN 2008
L30   24 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND ELECTRIC#####(1A)RESIST######

FILE 'HCAPLUS' ENTERED AT 15:21:47 ON 23 JAN 2008
L31   6 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND GRADIENT
L32   1 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
L25) AND COIL

```
       FILE 'HCAPLUS' ENTERED AT 15:21:47 ON 23 JAN 2008
L33           2 SEA ABB=ON   PLU=ON   (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
                 L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
                 L25) AND ?COIL
L34           1 SEA ABB=ON   PLU=ON   (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
                 L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
                 L25) AND MAGNET
L35           0 SEA ABB=ON   PLU=ON   (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
                 L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
                 L25) AND MRI
L36           1 SEA ABB=ON   PLU=ON   (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
                 L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
                 L25) AND MAGNETIC RESONANCE
L37           0 SEA ABB=ON   PLU=ON   (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
                 L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
                 L25) AND NUCLEAR MAGNETIC

     FILE 'STNGUIDE' ENTERED AT 15:22:42 ON 23 JAN 2008

     FILE 'HCAPLUS' ENTERED AT 15:22:59 ON 23 JAN 2008
L38           0 SEA ABB=ON   PLU=ON   US20070216411/PN

     FILE 'STNGUIDE' ENTERED AT 15:23:13 ON 23 JAN 2008

     FILE 'WPIX' ENTERED AT 15:23:46 ON 23 JAN 2008
L39           1 SEA ABB=ON   PLU=ON   US20070216411/PN
L40             SEL PLU=ON   L39 1- IC IPC :        8 TERMS

     FILE 'HCAPLUS' ENTERED AT 15:24:13 ON 23 JAN 2008
L41        5674 SEA ABB=ON   PLU=ON   L40
L42          29 SEA ABB=ON   PLU=ON   (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
                 L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR
                 L25) AND L41

     FILE 'STNGUIDE' ENTERED AT 15:24:16 ON 23 JAN 2008

     FILE 'HCAPLUS' ENTERED AT 15:25:06 ON 23 JAN 2008
L43         111 SEA ABB=ON   PLU=ON   ((L26 OR L27 OR L28 OR L29 OR L30 OR L31
                 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37 OR L38) OR L42)
L44         103 SEA ABB=ON   PLU=ON   L43 AND ?SINTER?
L45          76 SEA ABB=ON   PLU=ON   L43 AND LASER?
L46          57 SEA ABB=ON   PLU=ON   L43 AND SURFACE
L47          36 SEA ABB=ON   PLU=ON   L44 AND L45 AND L46
L48           1 SEA ABB=ON   PLU=ON   L47 AND CONDUCTOR
L49           0 SEA ABB=ON   PLU=ON   L47 AND CONDUCTING
L50           2 SEA ABB=ON   PLU=ON   L47 AND CONDUCTIVE
L51           6 SEA ABB=ON   PLU=ON   L47 AND CONDUCTIV####
L52           2 SEA ABB=ON   PLU=ON   L47 AND RESISTANCE
L53           1 SEA ABB=ON   PLU=ON   L47 AND RESISTIV####
L54           9 SEA ABB=ON   PLU=ON   (L48 OR L49 OR L50 OR L51 OR L52 OR L53)
L55             SEL PLU=ON   L54 1- RN :        31 TERMS
L56     2004651 SEA ABB=ON   PLU=ON   L55
L57           8 SEA ABB=ON   PLU=ON   L54 AND L56
L58           9 SEA ABB=ON   PLU=ON   L54 OR L57

     FILE 'STNGUIDE' ENTERED AT 15:26:53 ON 23 JAN 2008
```

FILE 'REGISTRY' ENTERED AT 15:30:00 ON 23 JAN 2008
```
L59      24083 SEA ABB=ON   PLU=ON   COPPER ALLOY AND AL/MAC
L60      48540 SEA ABB=ON   PLU=ON   ALUMINUM ALLOY AND CU/MAC
L61      75222 SEA ABB=ON   PLU=ON   AL/MAC AND CU/MAC AND ALLOY#####
L62       1034 SEA ABB=ON   PLU=ON   AL.CU/MF
L63          1 SEA ABB=ON   PLU=ON   COPPER/CN
L64          1 SEA ABB=ON   PLU=ON   ALUMINUM/CN
```

FILE 'HCAPLUS' ENTERED AT 15:31:19 ON 23 JAN 2008
```
L65          1 SEA ABB=ON   PLU=ON   L43 AND L59
L66          1 SEA ABB=ON   PLU=ON   L43 AND L60
L67          1 SEA ABB=ON   PLU=ON   L43 AND L61
L68          1 SEA ABB=ON   PLU=ON   L43 AND L62
L69         13 SEA ABB=ON   PLU=ON   L43 AND L63
L70         10 SEA ABB=ON   PLU=ON   L43 AND L64
```

FILE 'STNGUIDE' ENTERED AT 15:31:51 ON 23 JAN 2008

FILE 'HCAPLUS' ENTERED AT 15:32:32 ON 23 JAN 2008
```
L71         17 SEA ABB=ON   PLU=ON   (L65 OR L66 OR L67 OR L68 OR L69 OR L70) NOT L58
```

FILE 'STNGUIDE' ENTERED AT 15:32:33 ON 23 JAN 2008

FILE 'METADEX' ENTERED AT 15:38:39 ON 23 JAN 2008
```
L72          2 SEA ABB=ON   PLU=ON   LASER#####(2A)SINTER###### AND SURFACE AND
                 ELECTRIC######(3A)(CONDUCT########  OR RESIST########)
```

FILE 'STNGUIDE' ENTERED AT 15:39:18 ON 23 JAN 2008

FILE 'COMPENDEX' ENTERED AT 15:43:24 ON 23 JAN 2008
```
L73          4 SEA ABB=ON   PLU=ON   LASER#####(2A)SINTER###### AND SURFACE AND
                 ELECTRIC######(3A)(CONDUCT######## OR RESIST########)
```

FILE 'STNGUIDE' ENTERED AT 15:44:03 ON 23 JAN 2008

FILE 'COMPENDEX' ENTERED AT 15:45:59 ON 23 JAN 2008
```
L74         26 SEA ABB=ON   PLU=ON   LASER#####(2A)SINTER###### AND SURFACE(3A)(
                 ?STRUCTURE? OR ?PATTERN? OR ?FEATURE? OR ?BUMP?)
```

FILE 'STNGUIDE' ENTERED AT 15:46:39 ON 23 JAN 2008

FILE 'COMPENDEX' ENTERED AT 15:47:06 ON 23 JAN 2008
```
L75         26 SEA ABB=ON   PLU=ON   L74 NOT L73
L76          1 SEA ABB=ON   PLU=ON   L75 AND ELECTRIC######
L77          0 SEA ABB=ON   PLU=ON   L75 AND MAGNET
L78          0 SEA ABB=ON   PLU=ON   L75 AND COIL
L79          1 SEA ABB=ON   PLU=ON   L75 AND GRADIENT
L80          2 SEA ABB=ON   PLU=ON   (L76 OR L77 OR L78 OR L79)
```

FILE 'STNGUIDE' ENTERED AT 15:47:46 ON 23 JAN 2008

FILE 'COMPENDEX' ENTERED AT 15:48:40 ON 23 JAN 2008
```
L81         12 SEA ABB=ON   PLU=ON   L74 AND 744.9/CC
L82          3 SEA ABB=ON   PLU=ON   L74 AND 536.1/CC
L83         24 SEA ABB=ON   PLU=ON   L75 NOT L80
L84         12 SEA ABB=ON   PLU=ON   (L81 OR L82)
L85         10 SEA ABB=ON   PLU=ON   L83 AND L84
```

FILE 'HCAPLUS' ENTERED AT 16:09:04 ON 23 JAN 2008
                E ZHU H, 2002/RE
L88   1162 SEA ABB=ON   PLU=ON   ZHU H, 2002?/RE
L89   14 SEA ABB=ON   PLU=ON   L88 AND ?SINTER?
L90   47 SEA ABB=ON   PLU=ON   L88 AND ?LASER?
L91   155 SEA ABB=ON   PLU=ON   L88 AND METAL#######
L92   116 SEA ABB=ON   PLU=ON   L88 AND ELECTRIC#######
L93   59 SEA ABB=ON   PLU=ON   (L89 OR L90)
L94   13 SEA ABB=ON   PLU=ON   L93 AND L91
L95   8 SEA ABB=ON   PLU=ON   L93 AND L92
L96   19 SEA ABB=ON   PLU=ON   (L94 OR L95)
L97   SEL PLU=ON   L96 1- RN :   31 TERMS
L98   2645187 SEA ABB=ON   PLU=ON   L97
L99   18 SEA ABB=ON   PLU=ON   L96 AND L98
L100   19 SEA ABB=ON   PLU=ON   L96 OR L99
L101   4 SEA ABB=ON   PLU=ON   L100 AND SURFACE
L102   7 SEA ABB=ON   PLU=ON   L100 AND ?LAYER?
L103   5 SEA ABB=ON   PLU=ON   L100 AND MULTI
L104   0 SEA ABB=ON   PLU=ON   L100 AND MULTIPLE
L105   1 SEA ABB=ON   PLU=ON   L100 AND ?COAT?
L106   7 SEA ABB=ON   PLU=ON   L100 AND ?LAYER?
L107   12 SEA ABB=ON   PLU=ON   (L101 OR L102 OR L103 OR L104 OR L105 OR
              L106)

```
        FILE 'STNGUIDE' ENTERED AT 16:11:25 ON 23 JAN 2008

        FILE 'HCAPLUS' ENTERED AT 17:55:51 ON 23 JAN 2008
L108          9 SEA ABB=ON   PLU=ON   TOLOCHKO N, 1996?/RE
L109          3 SEA ABB=ON   PLU=ON   TUMER I, 1998?/RE
L110         12 SEA ABB=ON   PLU=ON   (L108 OR L109)
L111         10 SEA ABB=ON   PLU=ON   L110 AND ?SINTER?
L112         11 SEA ABB=ON   PLU=ON   L110 AND ?LASER?
L113          9 SEA ABB=ON   PLU=ON   L110 AND METAL?
L114          8 SEA ABB=ON   PLU=ON   L110 AND SURFACE?
L115         11 SEA ABB=ON   PLU=ON   (L111 OR L112 OR L113 OR L114)
                 D BIB AB KWIC 1-11
```

```
        FILE 'HCAPLUS' ENTERED AT 18:24:25 ON 23 JAN 2008
                E US 4855102/RE
L116            4 SEA ABB=ON   PLU=ON   "US 4855102, 1989, OKADA"/RE

        FILE 'STNGUIDE' ENTERED AT 18:24:32 ON 23 JAN 2008

        FILE 'HCAPLUS' ENTERED AT 18:24:50 ON 23 JAN 2008
                E JP 6340901/RE
                E JP 06340901/RE
L117            1 SEA ABB=ON   PLU=ON   "JP 06340901"/RE

        FILE 'STNGUIDE' ENTERED AT 18:25:09 ON 23 JAN 2008

        FILE 'HCAPLUS' ENTERED AT 18:25:45 ON 23 JAN 2008
                E JP 07030362/RE
                E JP 7030362/RE

        FILE 'STNGUIDE' ENTERED AT 18:26:01 ON 23 JAN 2008

        FILE 'HCAPLUS' ENTERED AT 18:26:19 ON 23 JAN 2008
                E JP 63230802/RE

        FILE 'STNGUIDE' ENTERED AT 18:26:25 ON 23 JAN 2008

        FILE 'HCAPLUS' ENTERED AT 18:26:51 ON 23 JAN 2008
L118            5 SEA ABB=ON   PLU=ON   (L116 OR L117)
                D ALL TOT
```

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	eberler and kolbeck and schon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/23 14:02
L2	1	2005-533912.NRAN.	DERWENT	OR	OFF	2008/01/23 14:11
L3	5	"1148341"	DERWENT	OR	OFF	2008/01/23 14:14
L4	1	"6539611"	USPAT	OR	OFF	2008/01/23 14:19
L6	1	"20070035069"	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/23 14:20
L7	1	2006-757829.NRAN.	DERWENT	OR	OFF	2008/01/23 14:21
L8	1	2006-757829.NRAN.	DERWENT	OR	OFF	2008/01/23 14:31
L9	5	"4309524"	DERWENT	OR	OFF	2008/01/23 14:31
L10	2	"10042132"	DERWENT	OR	OFF	2008/01/23 14:31
L11	7	L9 or L10	DERWENT	OR	OFF	2008/01/23 14:53
L13	14	L1 or L3 or L4 or L6 or L9 or L10 or L11	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/23 14:54
L14	1	L13 and (void or voidspace or pore or pored or porous or porosity)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/23 14:55